

Silicate melting chamber - uses charge fusing bowl revolved around horizontal axis by reversible drive

Brevet Basic : SU1659363

Classification internationale des brevets : C03B-005/00

• **Résumé :**

SU1659363 A Intensified melting of silicates for glass wool production combined with reduced usage of refractories and with longer service life while fusing the finely dispersed charge, are due to the melting element being in the shape of a bowl. The latter is mounted for turning around the horizontal axis and operates with a reversible drive. The bowl is provided with inner surface ring ribs.

The loader (8) introduces the charge into the chamber of the revolving bowl (3) through the opening of its bottom, and the charge is heated by the flame of the burners (2) preventing the carry over the charge components. The melt surface temp. reaches 1700-1800 deg.C which boosts the fusion of the charge, while the water cooling of the bowl forms inside it a skull. The melt flows down to the bottom of the housing (1) and a channel leads it to the furnace.

ADVANTAGE - The unit enhances process efficiency and its design is compact and reduces the usage of refractories.

Bul.24/30.6.91 (Dwg.1/2)

• **Données de publication de la famille :**

N° de publication : SU1659363 A 19910630  
 DW1992-14 3p \* AP: 1989SU-4683707 19890425  
 Numéro de Priorité : 1989SU-4683707 19890425  
 Nbre de Pays Couverts : 1  
 Nbre de Publications : 1

• **Déposant & Inventeur(s):**

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• **Codes d'accès :**

Numéro d'accès : 1992-112160  
 [14]  
 Accès 2nd CPI : C1992-052514

• **Codes Derwent :**

Codes Manuels : CPI: L01-C02  
 L01-F03  
 Classes Derwent : L01

• **Codes de mise à jour :**

Code de mise à jour : 1992-14

